Table of Contents: Volume 4 (1990)

Number 1

Editorial ..... *Rodney Brooks and Takeo Kanade* 5
A Physical Approach to Color Image Understanding ..... *Gudrun J. Klinker, Steven A. Shafer, and Takeo Kanade* 7
Detecting Moving Objects ..... *William B. Thompson and Ting-Chuen Pong* 39
Relative Orientation ..... *Berthold K.P. Horn* 59
Straight Homogeneous Generalized Cylinders: Differential Geometry and Uniqueness Results ..... *Jean Ponce* 79

Number 2

Automatic Extraction of Deformable Part Models ..... *Alex P. Pentland* 107
Using Vanishing Points for Camera Calibration ..... *B. Caprile and V. Torre* 127
Stereo and Controlled Movement ..... *Alan Yuille and Davi Geiger* 141
Linear Shape From Shading ..... *Alex P. Pentland* 153

Number 3

Structure from Motion Using Line Correspondences ..... *Minas E. Spetsakis and John (Yiannis) Aloimonos* 171
The Theory and Practice of Bayesian Image Labeling .... *Paul B. Chou and Christopher M. Brown* 185
Analog Hardware for Detecting Discontinuities in Early Vision .... *John G. Harris, Christof Koch, Erik Staats, and Jin Luo* 211
Motion from Point Matches: Multiplicity of Solutions ..... *Olivier D. Faugeras and Steve Maybank* 225